



Fast Ethernet Combo Print Server

User's Manual

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1. Introduction

Thank you for purchasing our Combo Print Server. This Print Server allows your GDI/Host-based printer become a sharable device on the network.

GDI printer is a printer that has built-in support for Windows Graphical Device Interface (GDI), so it is no need to convert the output from Windows to another format such as PostScript or PCL language. GDI printers are sometimes called host-based printers because they rely on the host computer to rasterize pages. Because of that, almost none of Print Servers in the market can support GDI printer network sharing. This Combo Print Server implements a special technology, which allows it to communicate with the GDI printer as if it is connected directly to your computer. With the feature, the GDI printer is easy to become a shared device and you don't need to worry about the compatibility with the GDI printers anymore. The Print Server supports GDI printer in the most popular operating systems: Windows 2000 SP4 above and XP SP1 above.

The Combo Print Server is the best solution for users to share GDI printer conveniently and easily. It offers the most flexible and manageable printing for GDI printer on your Local Area Network at an extremely low cost and with an absolute minimal setup and maintenance required.

2. Product Package

This package contains the following components:

- One Combo Print Server
- One Power Adapter
- One Quick Installation Guide
- One CD-ROM (Including all the software utilities, drivers, Multi language Quick Installation Guide and User's Manual)

3. Combo Print Server

This Combo Print Server supports GDI Print Server. Users can share GDI printer through the Combo Print Server.

GDI printer is a printer that has built-in support for Windows Graphical Device Interface (GDI), so it is no need to convert the output from Windows to another format such as PostScript or PCL language. GDI printer relies on the bi-directional communications between printer and computer frequently, so that the majority of print servers cannot support it.

The Combo Print Server can communicate with the GDI printer as if it is connected directly to your computer. The supported OS in this mode is Windows 2000 SP4 above and Windows XP SP1 above. The GDI Print Server mode doesn't support Windows 98SE/ME/NT, Linux/Unix or MAC OS. For the detailed applications, please refer to the following chapters.

Section 4.2.2 in Chapter 4: GDI/Host-based Printer

4. Getting Started

Before you start, you should have:

- One computer with Windows 2000 SP4 above or Windows XP SP1 above
- One GDI printer or printer with USB port and an installation CD
- One Category 5 Ethernet Cable
- One USB Cable

4.1 Hardware Installation Procedure

- 1. Unpack the Print Server package and verify that all the items listed in the previous section are provided.
- Plug the USB cable to the Print Server with the GDI printer that you want to share on the network.
- 3. Connect the Print Server to your network by attached the network cable to the network port of the Print Server.
- 4. Connect the power adapter to the Print Server. The Print Server will perform the Power-On-Self-Test (POST) after it is powered on. When the Status LED is unlighted, the Print Server is ready.

Note:

- 1. You must use the power adapter shipped along with the Print Server, do NOT use any other power adapter from other sources.
- 2. To prevent the compatibility problem between Print Server and a few GDI printer or printer, it is recommended that you power on the Print Server before the GDI printer or printer.

4.2 Software Installation Procedure

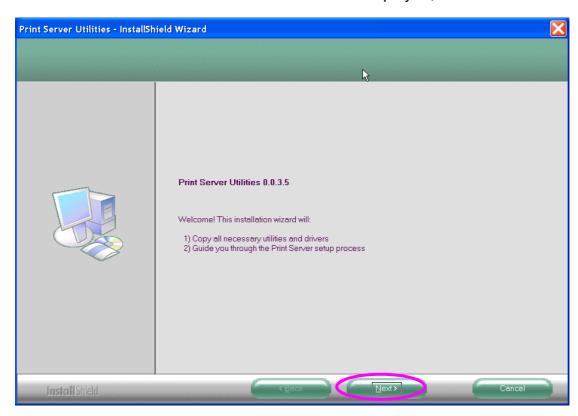
Before you start, you should check your computer's operating system. This program can be run in Windows 2000 SP4 above or Windows XP SP1 above. Please follow the steps below to start installation.

<u>Tip:</u> You have to uninstall all the Print Server drivers and utilities if you have installed the previous version.

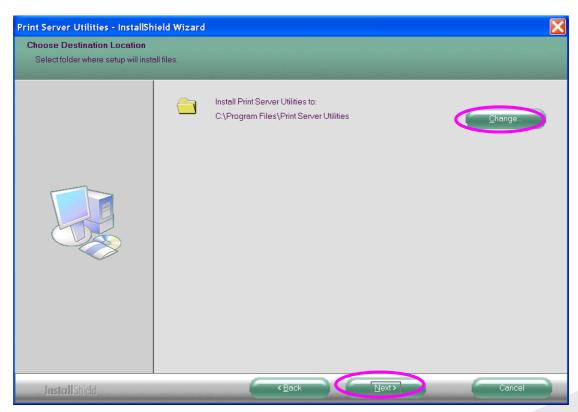
- Insert the CD shipped along with the Combo Print Server into your CD-ROM drive.
 The Autorun.exe program should be executed automatically. If not, run Autorun.exe manually from CD-ROM drive's root directory.
- 2. The following screen will be displayed. Click "Setup Utility".



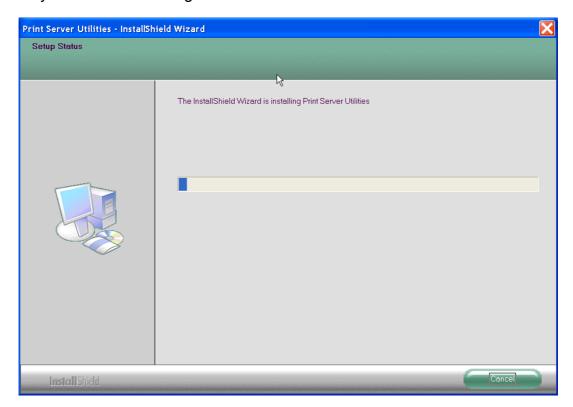
3. The "Print Server Utilities - InstallShield Wizard" is displayed, click "Next".



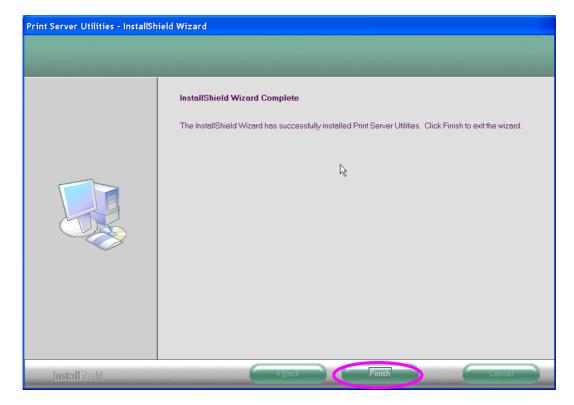
4. Click "Next" to install the Print Server utilities in the default folder or click "Change" to specify the destination folder where you would like to install the Print Server utilities.



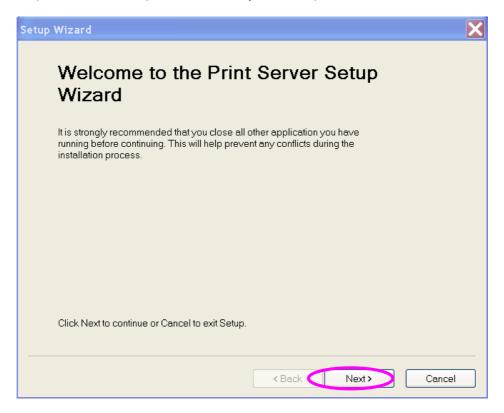
5. The system starts installing the Print Server Utilities.



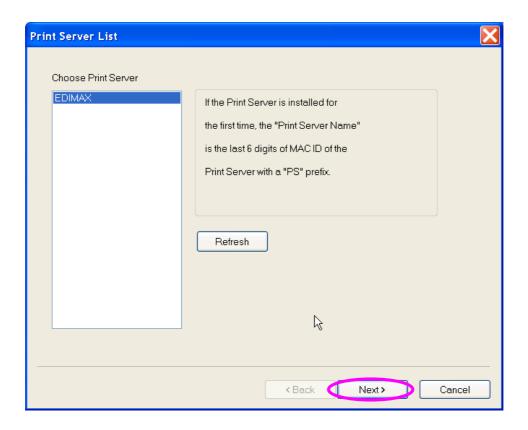
6. The utilities are all installed. Please click "Finish" to go to next step.



7. The Setup Wizard will be executed, it will guide you to configure the print server and install the printer with the print server to your computer. Please click "Next".



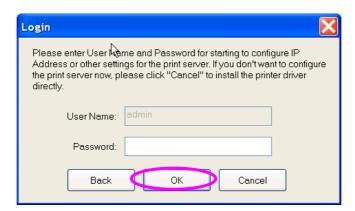
8. The program will search the Print Server within the network. Select the Print Server you would like to setup and click "Next" to continue.



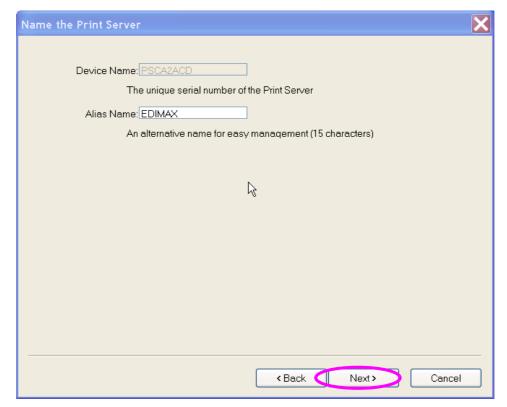
9.

Please enter the "Password" of the Print Server you have selected to login the Print Server for more settings. The default "User Name" is "admin"; default "Password" is "1234". If you want to install the drivers of the printer and bind the printer with the Print Server directly, please click "Cancel". You will be led to Step 13.

Following is the completed procedures for configuring the Print Server.



10. Set the "Alias Name" to the Print Server here. Click on "Next".

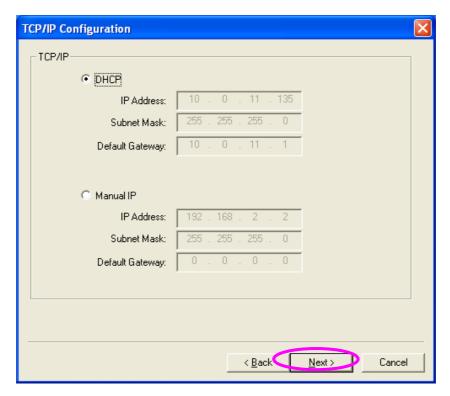


11. Please set the network settings for the Print Server manually. By default, the network settings are as follows.

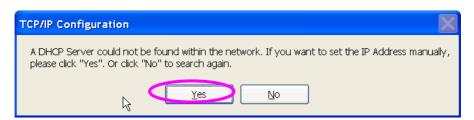
IP Address: 192.168.2.2

Subnet Mask: 255.255.255.0

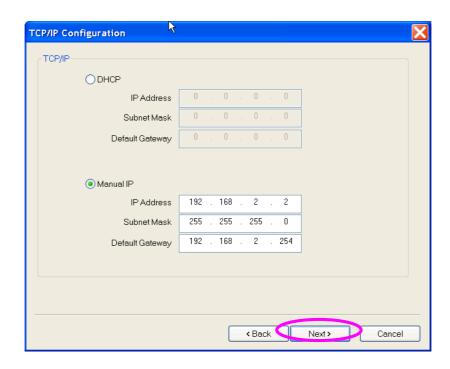
If you have selected "DHCP", the Print Server will try to determine the network settings automatically. If a DHCP Server is present within the network, the Print Server will automatically obtain and configure the network settings assigned by the DHCP Server. The assigned IP Address will be shown in the IP Address fields.



Or, if no DHCP Server is present within the network, then there is a message will display as below:



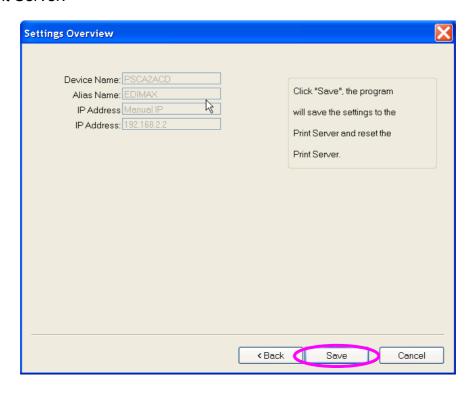
Please assign the network settings of the Print Server manually. Please click "Next" once you have found appropriate network settings for the Print Server.



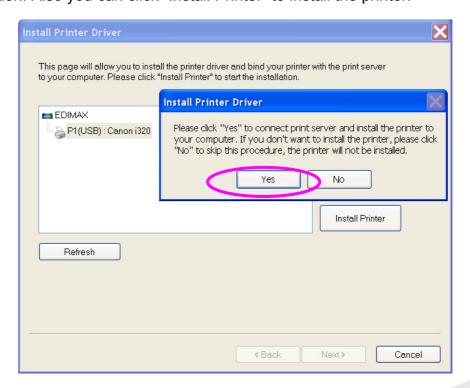
Note: The Print Server IP Address must be set to have the same network segment within your network environment or connected computer. If the network IP address settings are incorrect, then print server will not be able to communicate throughout the network. For example, if your router/gateway/computer is using IP address 192.168.2.1, then you need to give a unique manual IP to your print server with IP range 192.168.2.x (Please note: Above IP address setting is only an example, please do not follow exactly!)

If the network settings are incorrect, a message will be prompted to remind you after you click "Next". If you do not want to set it now, please click "Cancel" to finish the installation. You can then use the "Server Manager" utility to configure the Print Server IP address.

The configurations are finished. Please click "Save" to apply new settings and restart the Print Server.



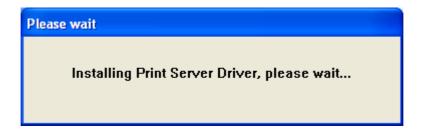
13. The "Install Printer Driver" page allows you to install the printer drivers and bind your printer with the Print Server to your computer. Please click "Yes" to start the installation. Also you can click "Install Printer" to install the printer.



4.2.1 GDI/Host-based Printer

Following is the installation procedures for "GDI/Host-based Printer" installation. (Printer install example: Cannon MP130)

1. The program will start installing the Print Server Drivers automatically. You will see several pop-up screens and some prompt messages in the system tray. When the system stops prompting, the drivers are all installed. Please wait for a moment.

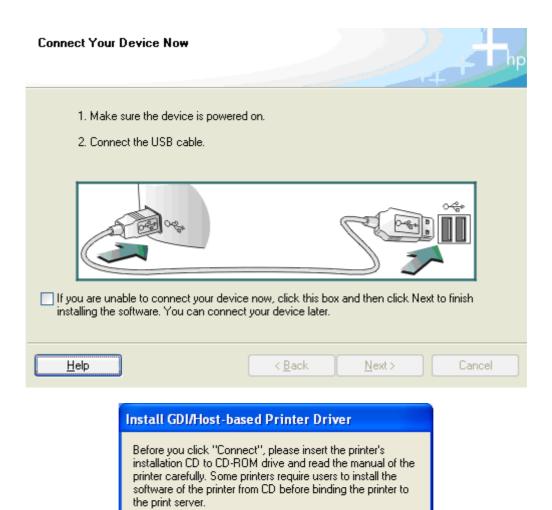


2. When the Print Server Drivers are all installed, the following screen is displayed. Before you click "Connect", please put your GDI printer's installation CD to your CD-ROM drive and read the manual of the GDI printer carefully.

Some GDI printers require users to install the drivers/utilities before connecting the GDI printer to your computer. Some GDI printers require connecting the GDI printer to your computer during the installation. Please refer to the below illustration which is the screen displayed during the installation.

To connect the GDI printer to your computer through the Print Server just like you have directly connected the GDI printer to your computer through the USB cable, you can click "Connect".

<u>Tip:</u> If you ever installed the printer's drivers into your computer, you could click "Connect" directly.



3. The system starts to connect the printer to print server and automatically search and install the GDI printer's drivers.

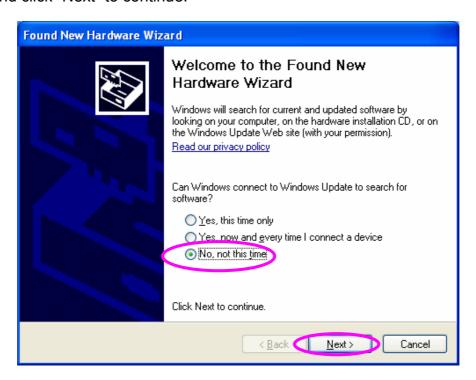
Cancel

Connect

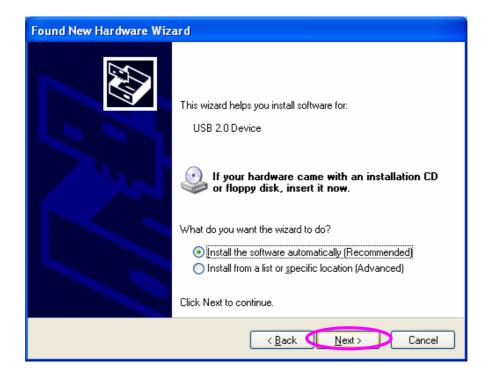


4.

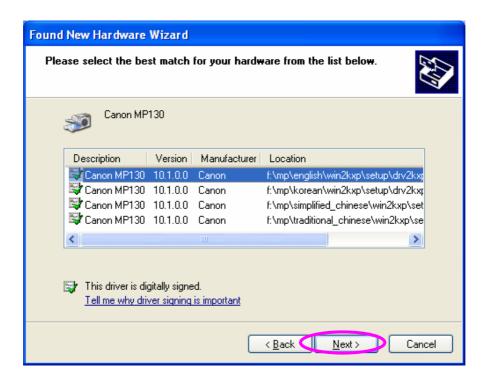
You will see some prompt messages in the system tray. If there is driver needed you to manually install. In the "Found New Hardware Wizard", please select "No, not this time" and click "Next" to continue.



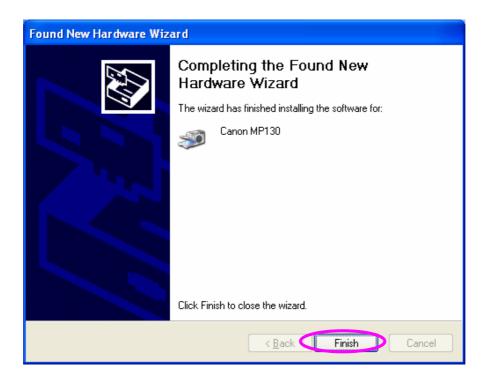
5. Select "Install the software automatically (Recommended)" and click "Next".



6. Select the correct driver and click "Next".



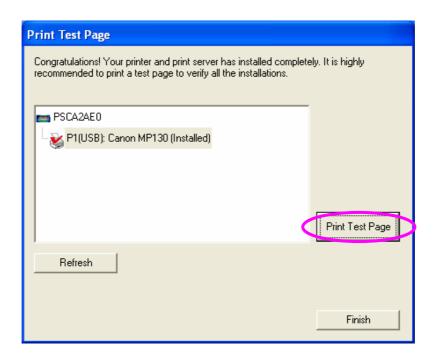
7. After the driver is installed, click "Finish".



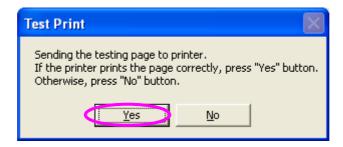
8. After the drivers are installed completely (no more prompt message). Your GDI printer has been bound with the Print Server to your computer. Please click "Print Test Page" to confirm that you can print through the network successfully.

<u>Tip1:</u> Before you click "Print Test Page" or "Finish", please make sure the printer drivers and utilities are all installed. Otherwise, the printer may work abnormally because of some drivers for the printer is not installed. If there is no more prompt message and your Windows system has shown you the message that the hardware is installed ready, the drivers are all installed.

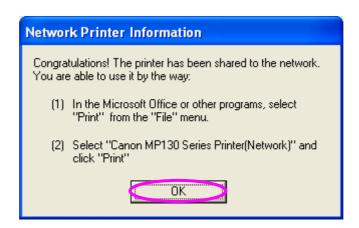
<u>Tip2:</u> It is highly recommended to print a test page to ensure the installation is successfully. If the installation is failed, you have to run the "Setup Wizard" again.



9. If you have completed the print job successfully, please click "Yes". Or click "No" to try to install again.



10. Congratulations, the printer is installed successfully. The installed printer will be added to the "Printers & Faxes" in the Windows. If you want to print documents, please select "Printer Model Name(Network)".



11. The following message will alert you to restart your computer before you start using the network printer. Click "OK" and restart your computer then all installations are completed.

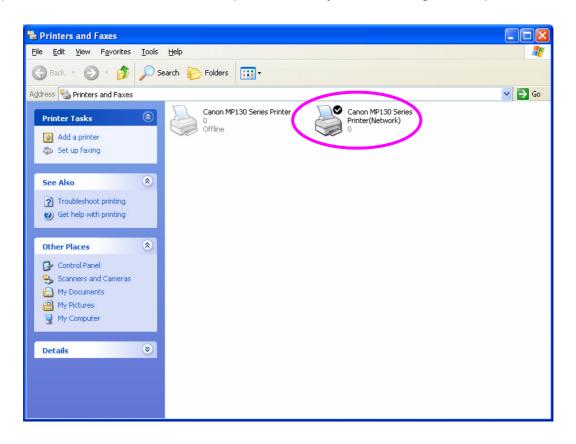


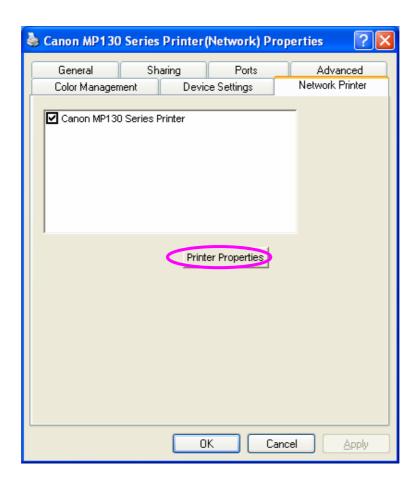
4.2.1.1

Using GDI Printer

After restarting the computer, you will find there are two printer icons added to "Printers and Faxes" in the Windows. The "Printer Model Name(Network)" will stand for the printer.

If you want to print a file or document, please print to "Printer Model Name(Network)". To set the paper size or other feature of the printer, please right click "Printer Model Name(Network)" and select "Properties". In the "Printer Model Name(Network) Properties" screen, click "Printer Properties" then you can configure the printer.





4.3 Print Server Utilities

After the installation is completed, there will be four utilities add to "Start/Programs/Print Server Utilities" folder in the Windows.

Setup Wizard – If you don't install the printer during the software installation in Section 3.2, you can run this setup wizard to install the printer drivers and bind the Print Server to your computer.

Server Manager – Allows you to configure the Print Server's IP Address, network protocols and other advanced features.

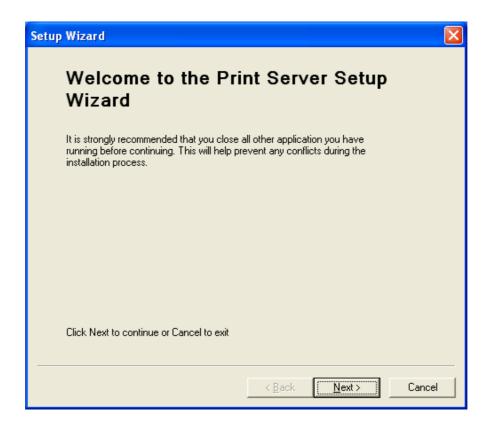
Uninstall – Assistant for removing all installed Print Server software programs.

5. Setup Wizard

The "Setup Wizard" will guide you to install the Normal printer or GDI printer with the Combo Print Server into your computer.

If there is a new Combo Print Server installed in the network or the Combo Print Server you have installed doesn't work, please run the "Setup Wizard" to install again. Please refer to the Section 3.2 for the detailed setup procedures.

Note: In Windows 98SE/Me/NT, the "Setup Wizard" will only allow you to install "Normal Printer".



6. Server Configuration

6.1 Introduction

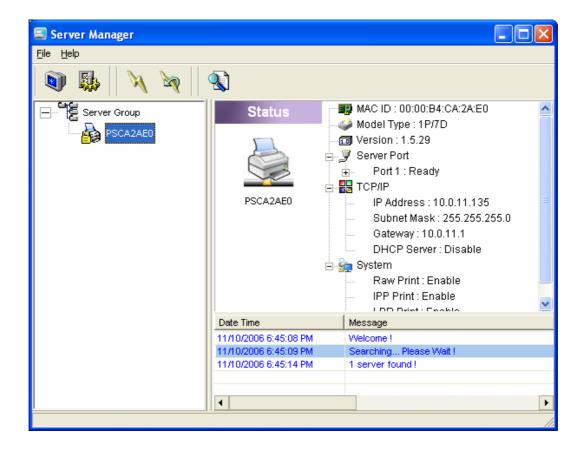
This chapter introduces Combo Print Server's system configuration utility in Windows environment. This utility provides the most complete management and configuration functions on the Combo Print Server side. This utility only provides configuration functions for Combo Print Server itself; it does not include configuration functions for client side or other file server in the network environment.

The Configuration Utility provides the following configuration and management functions:

- Search Print Server: Search All Available Combo Print Servers on the Network.
- Status: Display Combo Print Server Network Status.
- **General Configuration:** Configure general settings about the Combo Print Server such as Server Name, Password, etc.
- TCP/IP Configuration: IP Address and DHCP Server Configuration.
- **System Configuration:** Combo Print Server Network Ability Setting and Firmware Upgrade.

Please refer to the following sections for the explanation of each function separately.

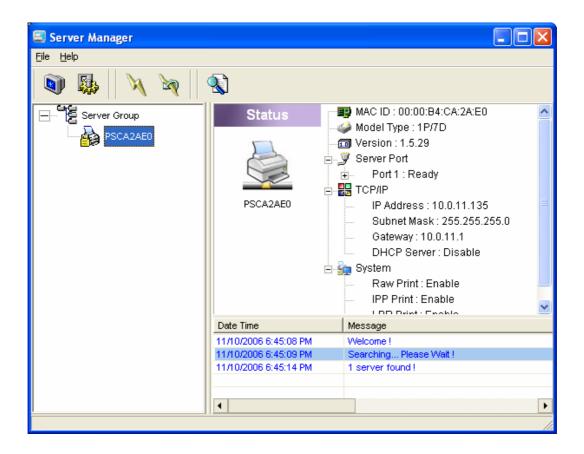
6.2 Search for All Available Combo Print Server



Every time when you run the "Server Manager" configuration utility, click the "Search" icon on the tool bar. The configuration utility will delay for several seconds because the utility is using system's available network protocols to search for all Combo Print Servers on the network. All available Combo Print Servers will be listed under "Server Group" on the left side of the window.

You must select the Combo Print Server you would like to configure from the list. The system will, at the same time, display the selected Combo Print Server's status on the right side of the window.

6.3 Status of Combo Print Server



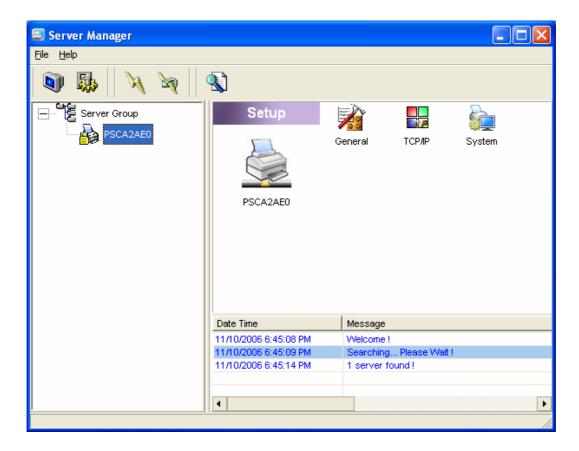
Click "Status" icon on the tool bar, the status of the currently selected Combo Print Server will be showed on the right side of the window. The information of the Combo Print Server displayed are including MAC ID, Model Type, Firmware Version, status of each server port, IP address, subnet mask, default gateway and supported printing protocols...etc.

You can refresh the Combo Print Server's status by pressing the "Refresh" button



You can restart the Combo Print Server by pressing the "Reboot" button

6.4 Setup the Combo Print Server

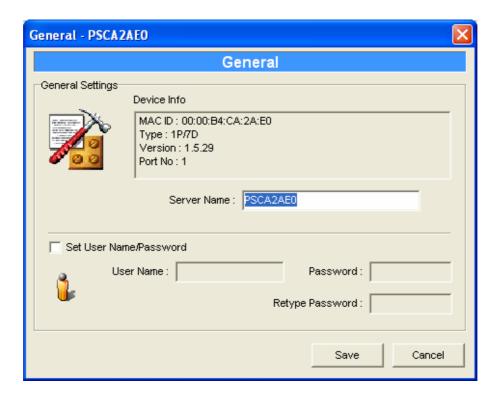


Click "Setup" icon on the tool bar, the setup items of the current selected Combo Print Server will be showed on the right side of the window.

Double click one of the icons to set up the selected Combo Print Server. A screen will pop up to verify "User Name" and "Password" of the Combo Print Server. The default values are: **User Name: admin, Password: 1234**.

<u>**Tip:**</u> When you have finished the settings, please click " " to restart the Combo Print Server to let the settings take effect.

6.5 General Configuration

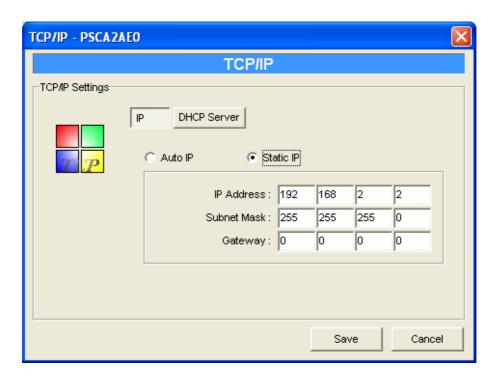


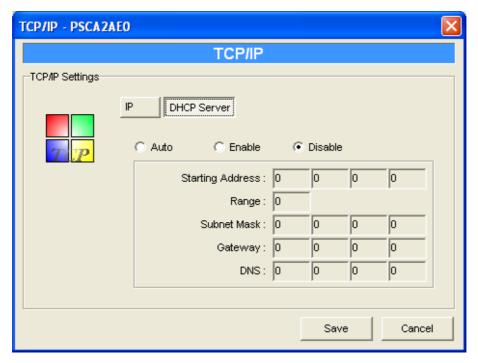
Double Click "General" icon and the General configuration window will pop-up. You can see basic Combo Print Server information in this page. You also can configure the "Server Name", "User Name" and "Password" here.

Server Name, the name of the Combo Print Server. You can use this name to identify the Combo Print Server when you are searching for the Combo Print Server by the "Server Manger" utility.

User Name / Password is used to authenticate the administrator to login the Combo Print Server for configuring it from the "Server Manger" utility or the Web Management tool.

6.6 TCP/IP Configuration





Double Click "TCP/IP" icon and the TCP/IP configuration window will pop-up.

You can configure the Combo Print Server to automatically get IP from DHCP server or manually specify static IP. The Combo Print Server also has a built-in DHCP server. You can enable this DHCP server and let it manages IP for you.

IP Address Assignment:

Click the "IP" button to enter the IP setting page. If you need the Combo Print Server to automatically get an IP from DHCP server, select "Auto IP". You can also select "Static IP" to manually assign "IP Address", "Subnet Mask" and "Gateway" for the Combo Print Server. By default, "Static IP" is enabled and the default settings are as follows.

IP Address: 192.168.2.2

Subnet Mask: 255.255.255.0

Auto IP – The IP Address information of the Combo Print Server obtained from DHCP Server will be displayed in the address field. If no DHCP Server is present, you have to assign the information manually.

Static IP – Manually assign the IP address information in the same network with your computer to the Combo Print Server.

DHCP Server:

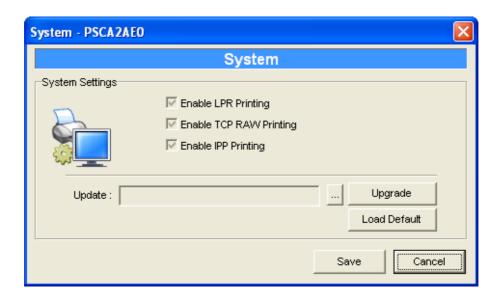
Click the "DHCP Server" button to enter into the DHCP server's setting page. By the default, the DHCP server is disabled.

Auto – If "Auto" is selected, the Combo Print Server will detect DHCP server within the network automatically and once the DHCP server doesn't exist, the Combo Print Server will turn on his own DHCP server and assign IP Address to client. Please fill in the "Starting Address", "Range", "Subnet Mask", "Gateway" and "DNS"; then the Combo Print Server will assign a unique IP within the range for each DHCP client.

Enable – If the DHCP is enabled, you have to assign a range of IP addresses. Fill in the "Starting Address", "Range", "Subnet Mask", "Gateway" and "DNS"; then the Combo Print Server will assign a unique IP within the range for each DHCP client.

Disable – The DHCP Server is disabled. You have to build up a DHCP Server in the network or set the IP Address for each client manually.

6.7 System Configuration



Double Click "System" icon and the System configuration window will pop-up. In the System configuration page, you can see all available printing protocols and upgrade the new firmware for this Combo Print Server.

Upgrade Firmware: You can use this "Upgrade Firmware" tool to update the newest firmware of the Combo Print Server. Click "——" button and select the correct firmware in your PC. After selecting the firmware file, click the "Upgrade" button to finish the firmware update process.

<u>Tip:</u> Before you upgrade the firmware, please make sure that the IP Address settings of the Combo Print Server are in the same network as your computer.

Load Default: If you want to reset the Combo Print Server to default factory settings, please click "Load Default".

7. Web Management

7.1 Introduction

Combo Print Server can be configured and managed on the Web. Through Local Area Network, or even Internet, administrator can easily configure and manage Combo Print Server's various main functions in browsers. Simply enter Combo Print Server's IP address into your browser's address field to manage a Combo Print Server by Combo Print Server's built-in Web Server.

The default IP Address, User Name and Password settings of the Combo Print Server are as follows.

IP Address: 192.168.2.2

User Name: admin

Password: 1234

7.2 Login

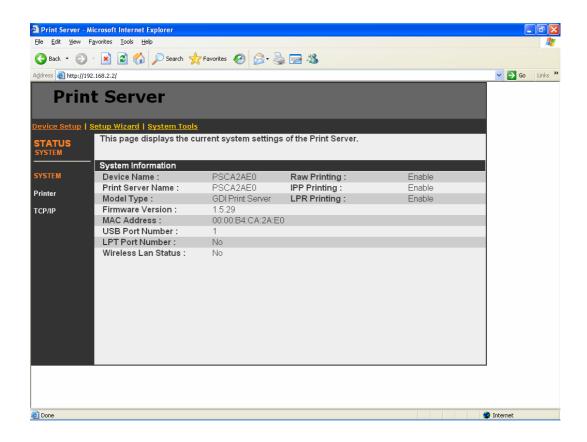
You may use any Web Browser to review the status or configure the settings of the Combo Print Server. After entering the IP address of the Combo Print Server, a login page display. You have to enter correct "User Name" and "Password" before going to the Web Management pages.

Note: Default User Name is "admin", default password is "1234".



7.3 Device Setup

7.3.1 System



This web page will display the information about the Combo Print Server.

Device Name: The device name is not configurable. By default, it is the last 6-digit of the MAC ID of the print server with prefix "PS".

Print Server Name: The print server name is the same as device name by default. You can change this name to identify the print server easily when you are searching for the print server by the supplied utilities.

Model Type: Display the type of the print server.

USB Port Number: Display the number of the USB port on the Combo print server.

LPT Port Number: Display the number of the parallel port on the Combo print server.

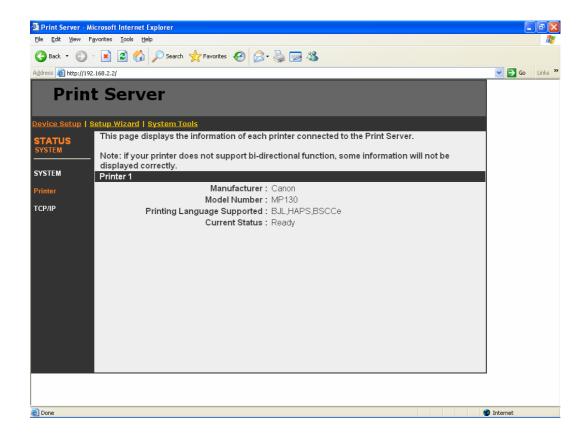
Wireless LAN Status: It will show if the Combo Print Server supports WLAN function.

Firmware Version: Display the firmware version of the Combo Print Server.

MAC Address: The MAC ID of the Combo Print Server will be displayed here.

RAW/IPP/LPR Printing: By default, the RAW/IPP/LPR printing protocols are all enabled.

7.3.2 Printer



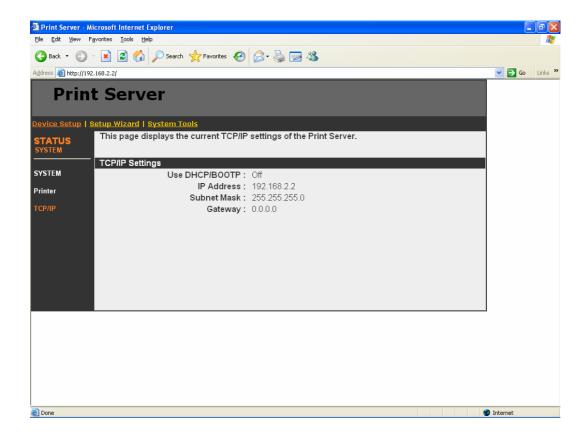
This page lists the information and the status of the printer connected to the Combo Print Server USB port. The printer information includes manufacturer, model number and the supported printing language. The status of the printer includes "Ready", "Off Line" or "Paper Out".

Ready: The printer is ready to use.

Off Line: The printer is not connected to Combo Print Server through USB cable or it is turned off.

Paper Out: The printer is not ready because of paper out.

7.3.3 TCP/IP



This page lists all TCP/IP settings of the Combo Print Server.

Use DHCP/BOOTP: If the Combo Print Server enables to obtain IP Address from DCHP Server, it will show "On". Otherwise, it will show "Off".

IP Address: Display the IP Address of the Combo Print Server. By default, the IP Address is "192.168.2.2".

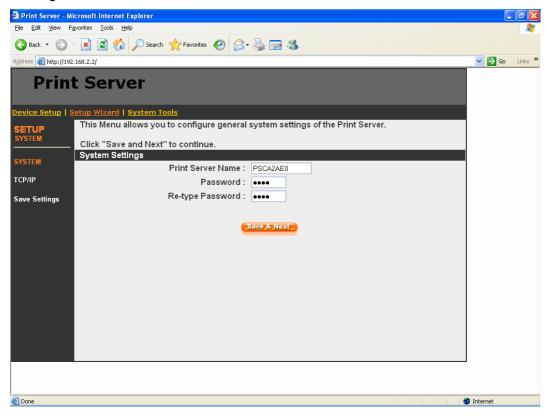
Subnet Mask: Display the subnet mask setting of the Combo Print Server. By default, the subnet mask is "255.255.255.0".

Gateway: Display the gateway setting of the Combo Print Server. By default, the gateway setting is "0.0.0.0".

7.4 Setup Wizard

Note: After you have changed the settings from the Setup Wizard, please click "Save Settings" in the menu of the left side to let the settings take effect and reboot the Combo Print Server.

7.4.1 System



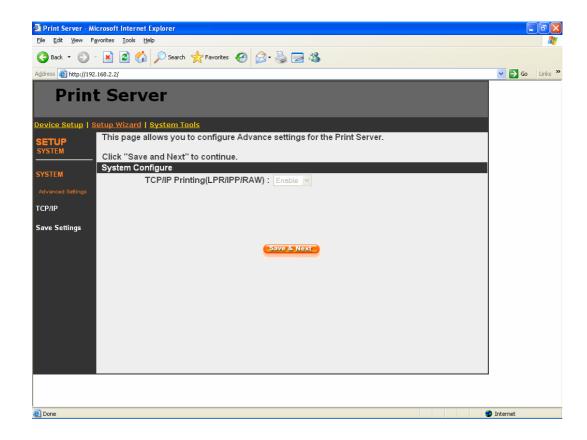
You can change the server name and password of the Combo Print Server from here.

Combo Print Server Name, the name of the Combo Print Server. You can change this name to identify the print server easily when you are searching for the print server by the supplied utilities.

Password, enter new password of the Combo Print Server. The password can be up to 7-digit alphanumeric format. The default password is "1234".

Re-type Password, enter the same password for the Combo Print Server again.

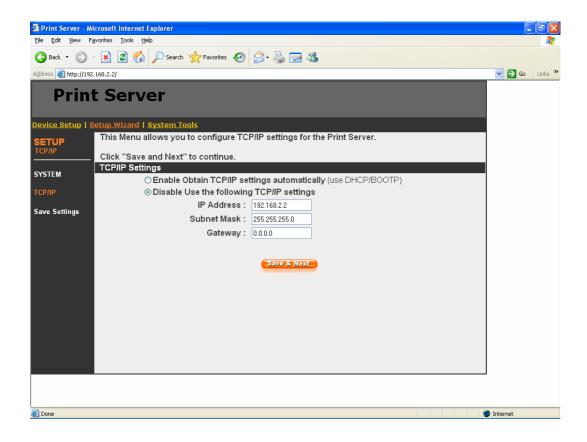
7.4.1.1 Advanced Settings



Some advanced feature of the Combo Print Server can be set here.

TCP/IP Printing (LPR/IPP/RAW): This Combo Print Server supports TCP/IP network protocol and LPR/IPP/RAW printing protocols. By default these protocols are enabled.

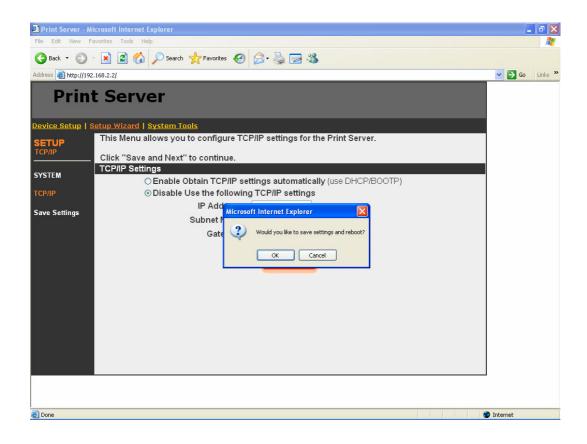
7.4.2 TCP/IP



You can configure the Combo Print Server to automatically get IP from DHCP server or manually specify static IP.

If you need the Combo Print Server to automatically get an IP from DHCP server, select "Enable Obtain TCP/IP Settings Automatically (Use DHCP/ BOOTP)". You also can select "Disable Use the following TCP/IP Settings" to manually assign "IP Address", "Subnet Mask" and "Gateway" for the Combo Print Server.

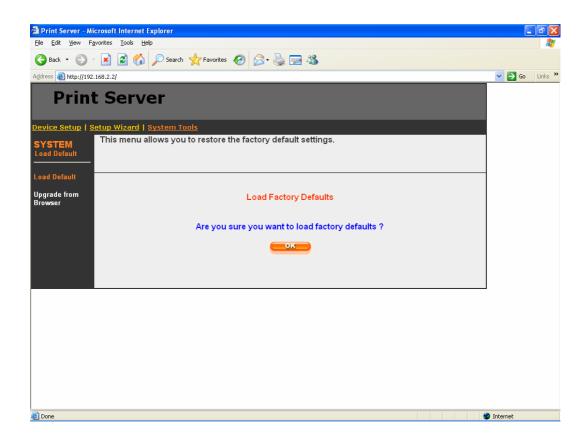
7.4.3 Save Settings



After configuring the Combo Print Server, you have to click the "Save Settings" to save the settings and restart the system.

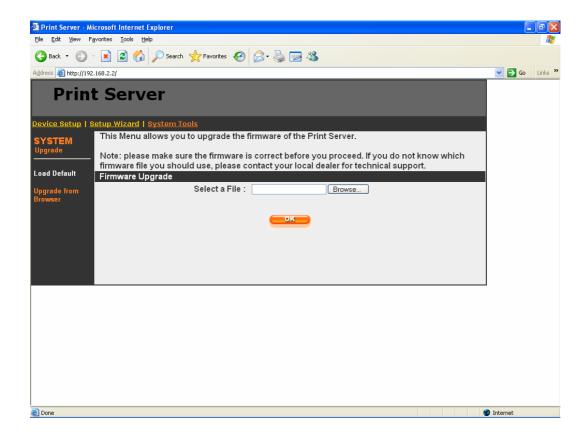
7.5 System Tools

7.5.1 Load Default



You can use this page to restore the factory default settings. Click "OK" and after the print server is restarted, the process is completed. Be aware that all of your previous setup will be cleared.

7.5.2 Upgrade Firmware from Browser



You can upgrade new firmware for this Combo Print Server in this page. Click "Browse" to select the new firmware in your storage and then click "OK", the firmware will be updated in several minutes.

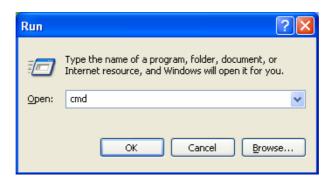
Be aware that if you have started upgrading firmware, you have to follow all the upgrading steps or the Combo Print Server can't turn back to normal configuration.

8. Troubleshooting

- 1. The printer cannot be shared in the network.
 - Check if the printer is a Combo Printer. If it is a Combo printer, please make sure you have run the "Setup Wizard" and follow the instructions in the manual to install the printer.
 - Check if the print server's IP Address settings are in the same subnet with your computer. For example, if your computer's IP Address is 192.168.1.3, the print server's IP Address setting should be 192.168.1.x.
 - Check if the printer you are using is in the "Compatibility List" in Appendix or contact with your dealer.
- 2. I am not sure the IP Address settings of my computer.

The following procedures will help you to check the current IP Address setting of your computer. You can compare if your computer and print server's IP Addresses are in the same subnet.

- 1. Click "Start" and select "Run".
- 2. Type in "cmd" and click "OK".

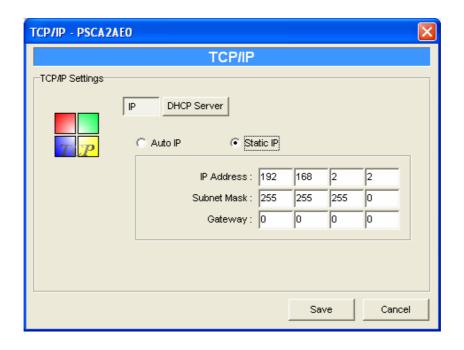


3.

Type ipconfig /all and click enter.

- Your PC's IP address is 192.168.2.111.
- The PC's Subnet Mask is 255.255.255.0.
- Your PC's MAC Address is the one entitled Physical Address (00-00-E2-82-C3-AD).
- 3. This product is not found even after searching by the "Server Manager".
 - Check if the power adapter and the network cable are connected to the Combo Print Server properly.
 - Check if the LAN and Ready LEDs are turned on.
- 4. The ways to change the IP Address of the Combo Print Server.
 - A DHCP Server is installed in the network
 If a DHCP Server is installed, you can setup to let the Combo Print Server get IP
 Address from the DHCP Server automatically.
 - 1. Open "Server Manager" and then select "TCP/IP" setting.
 - 2. Select "Auto IP" and click "Save".
 - 3. Reboot the Combo Print Server.
 - Set up the IP Address Manually
 - 1. Open "Server Manager" and then select "TCP/IP" setting.
 - 2. Select "Static IP" and enter the IP Address and Subnet Mask as your computer. Click "Save".
 - 3. Reboot the Combo Print Server.

Note: Set a static IP Address to Combo Print Server is recommended since DHCP assignment may dramatically change the IP Address for Combo Print Server.



Appendix: Combo Print Server Compatibility List

The compatibility information is the first released in May 2007. For the latest information, please contact with your dealer.

GDI Printers

No.	Company	Туре	Printer Model	Print
1.	HP	B&W LaserJet Printer	LaserJet 1020	ОК
2.	HP	B&W LaserJet Printer	LaserJet 1022	ОК
3.	Canon	Color Ink Jet Printer (MFP)	MPC 190	ОК
4.	Canon	Color Ink Jet Printer (MFP)	PIXMA MP530	ОК
5.	Canon	Fax Machine	FAXPHONE L120	ОК
6.	Lexmark	All-in-One Photo Printer (MFP)	P6250	ОК
7.	Lexmark	All-in-One Photo Printer (MFP)	X2350	ОК
8.	Lexmark	All-in-One Photo Printer (MFP)	X3350	ОК
9.	Lexmark	All-in-One Photo Printer (MFP)	X3470	ОК
10.	Lexmark	All-in-One Photo Printer (MFP)	X5470	ОК
11.	Lexmark	All-in-One Photo Printer (MFP)	X6170	ОК
12.	Lexmark	All-in-One Photo Printer (MFP)	X7170	ОК
13.	Lexmark	All-in-One Photo Printer (MFP)	X7350	ОК
14.	Lexmark	Color Ink Jet Printer	Z617	ок
15.	Lexmark	Color Ink Jet Printer	Z735	OK
16.	Epson	B&W Laser Jet Machine	EPL-6200L	OK
17.	BenQ	MFP	CM3000	OK